NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

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TP-00287	One	
Job No.		
PH-7017		
Map Classification		
Final Field Edited Map		
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State		
Alaska		
General Locality		
Afognak and Kodiak Islands		
Locality		
Bluefox Bay		
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DESCRIPTIVE REPORT

TP-00287

TABLE OF CONTENTS

NOAA FORM 76-36A, DESCRIPTIVE REPORT - DATA RECORD	1
NOAA FORM 76-36B, COMPILATION SOURCES	2
NOAA FORM 76-36C, HISTORY OF FIELD OPERATIONS	3
NOAA FORM 76-36D, RECORD OF SURVEY USE	4
PROJECT DIAGRAM	5
SUMMARY	6
FIELD INSPECTION NOTE	8
PHOTOGRAMMETRIC PLOT REPORT (AEROTRIANGULATION REPORT)	9
NOAA FORM 76-41, DESCRIPTIVE REPORT CONTROL RECORD	13
COMPILATION REPORT	14
ADDENDUM TO COMPILATION REPORT	16
REVIEW REPORT	17
GEOGRAPHIC NAMES, FINAL NAMES SHEET	19
INDEX TO PROJECT DATA AND MATERIAL ON FILE	20
FORM CACS-8352 RECORD OF APPLICATION TO CHARTS	23

NOAA FORM 76-36A (3-72) NATIONAL OCEANIC AND ATMOS PHERIC ADMIN	TYPE OF SURVEY	SURVEY TE 00287
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PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
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Norfolk, Virginia	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
	REVISED	19 TO 19
Jeffrey G. Carlen, Cdr , NOAA		
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation Instr. Nov. 19,1971	Field Support Ins	tr. May 03, 1971
Office Instr. Apr. 17,1972		
Office Instr., Supplement 1 May 11,1973		
Office Instr., Amendment 1 Not Dated		
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MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER		
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3. MAP PROJECTION	4. 0	GRID(S)
	STATE	ZONE
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5. SCALE	STATE	ZONE
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NOAA FORM 76-36B (3-72)		TP-00287	NATIONAL OCE		MOSPHERIC	NT OF COMMERC Administratio L ocean surve
	Co	MPILATION SO	URCES			
1. COMPILATION PHOTOGRAPH	Y					
CAMERA(S) Wild RC-8 "E" (152 7	1mm F. L.)		PHOTOGRAPHY EGEND		TIME REFE	RENCE
TIDE STAGE REFERENCE		(5) 501 50		ZONE		
REDICTED TIDES		(C) COLOR (P) PANCHE	OMATIC	Ala		∑ STANDAR
REFERENCE STATION RECO		(I) INFRAR		MERIDIA		DAYLIGH
NUMBER AND TYPE	DATE	TIME	SCALE	150	STAGE OF	TIDE
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71 E (C) 6247	07/05/71	13:50	1:30,00	1	8 ft. abo	•
71 E (C) 6281 - 6282		14:14	1:30,00	1	0 ft. abo	
71 E (C) 6291	07/05/71	11:24	1:30,00	0 8.	1 ft. abo	ove MLLW
				•		
		1	1	1		
			1			
REMARKS		1	<u> </u>			
2. SOURCE OF MEAN HIGH-WAT	ER LINE:					
The mean high water	line was compi	led on the	Wild B-8 st	ereoplot	ter usino	g the
color photographs li						,
~ ~ +						
		,				
3. SOURCE OF	MEAN LOWER L	OW-WATER LINE				
No mean lower low wa	ter line was c	ompiled.				
•						
<u> </u>		,		·		
4. CONTEMPORARY HYDROGRA	PHIC SURVEYS (List	only those survey:	that are sources	for photograms	netric aurvey i	informetion.)
SURVEY NUMBER DATE(S)						
SORVET NUMBER DATE(S)	SURVEY CO	PY USED SUA	VEY NUMBER	DATE(S)	SURVI	EY COPY USED
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E FINAL UNICTIONS				.L		
5. FINAL JUNCTIONS	EAST	sou	ТН		WEST	
TP-00284	TP-00288		TP-00292*		TP-002	286
REMARKS	1 11 00200	.l	-L 00272"		15-00	500
* Manuscript at 1:20	000 80515	*	•			
	AND BEATE					

NOAA	FORM	76-	-36C

5. GEOGRAPHIC NAMES:

7. SUPPLEMENTAL MAPS AND PLANS

One Form C&GS152 (CSI)

REPORT

NONE

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

TREPORT

X NONE

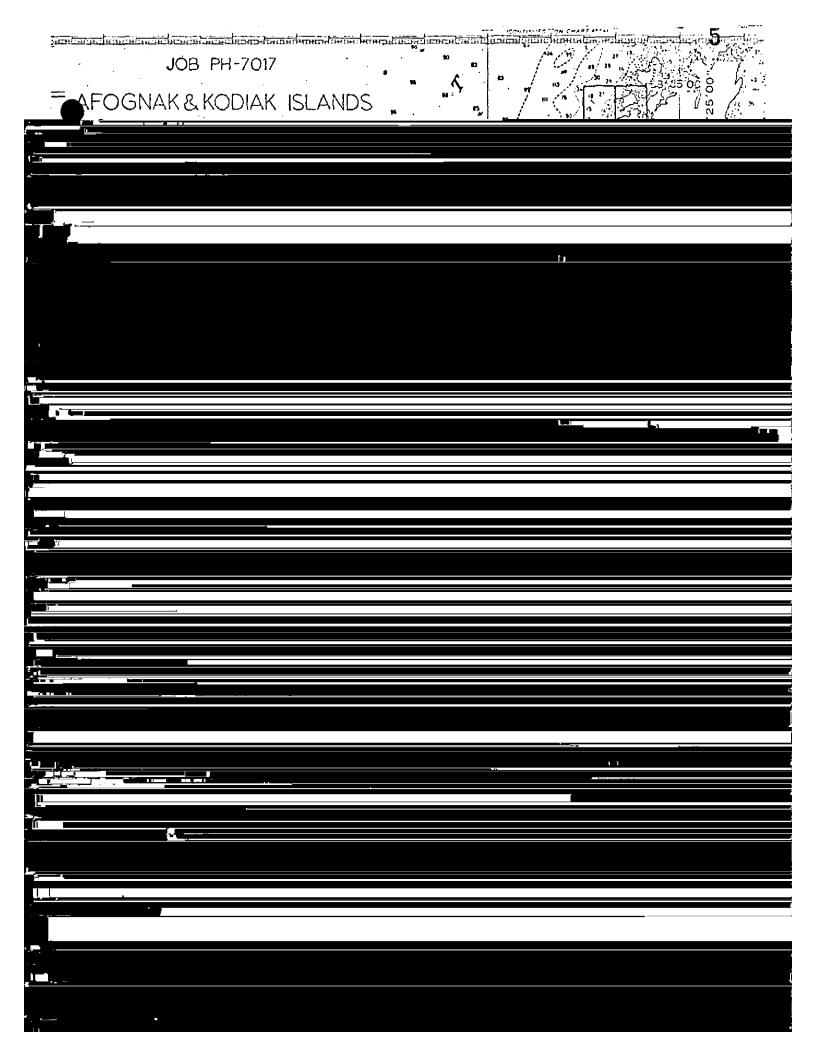
6. BOUNDARY AND LIMITS:

IOAA FORM 76-36C 3-72)			NIC AND ATMOSPHERIC	ENT OF COMMERCE ADMINISTRATICAL OCEAN SURVE
<u> </u>	HISTORY OF FIELD	OPERATIONS		· · · · · · · · · · · · · · · · · · ·
FIELD INSPECTION	OPERATION TELE	D EDIT OPERATION		
	OPERATION		NAME	DATE
. CHIEF OF FIELD PART	Y	Unknown		July 1972
	RECOVERED BY	None		
. HORIZONTAL CONTROL	L ESTABLISHED BY	None		ļ
	PRE-MARKED OR IDENTIFIED BY	None	· · · · · · · · · · · · · · · · · · ·	
	RECOVERED BY	N/A		
. VERTICAL CONTROL	ESTABLISHED BY	N/A		
<u>.</u>	PRE-MARKED OR IDENTIFIED BY	N/A	<u> </u>	
	RECOVERED (Triangulation Stations) BY	None		
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
, GEOGRAPHIC NAMES INVESTIGATION	COMPLETE BY			
INVESTIGATION	SPECIFIC NAMES ONLY	None		1
	X NO INVESTIGATION	<u> </u>	-	
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	Unknown		July 1972
. BOUNDARIES AND LIMI	TS SURVEYED OR IDENTIFIED BY	None		<u> </u>
I. SOURCE DATA		10		
. HORIZONTAL CONTRO	L IDENTIFIED	I _	NTROL IDENTIFIED	
Non e		Non e	,	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
3. PHOTO NUMBERS (Clar	ification of details)			
	thru 6283, 71 E (C) 6290 an	d 6291, 71 E	(C) 6246 and 6	247
None				
PHOTO NUMBER	BMEN TOSILBO	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AN	ID LIMITS: REPO	RT XX NONE
. SUPPLEMENTAL MAPS	AND PLANS	-		
None				
	OS (Sketch books, etc. DO NOT list data submit	tted to the Geodesy D	Division)	
One Field Edi	t Ozalid			

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

		RECO	RD OF SURVE	Y USE			
I. MANUSC	I. MANUSCRIPT COPIES						
COMPILATION STAGES					DATE MANUSCRI	PT FORWARDED	
	DATA COMPILED	DATE	RE	MARKS		ARINE CHARTS	HYDRO SUPPORT
	tion Complete Field Edit	May 1972	L	I Manuscr erseded)		ay 19,1972	May 18,1972
	dit Applied tion Co-plete	July 1974	Class I Ma	anuscript	. N	ov.15,1974	Aug.28,1975
II. LANDM	ARKS AND AIDS TO NAVIG	ATION , in MOITA					
	ORTS TO MARINE CHART D	19. 11.11	DATA BRANCH	<u> </u>		·	
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMAR	к\$	
		 	-		-		
							
							
III. FEDEI	RAL RECORDS CENTER DA	.TA	<u></u>				
ı. ⊠ i	1. X BRIDGING PHOTOGRAPHS; X DUPLICATE BRIDGING REPORT; X COMPUTER READOUTS.						
	CONTROL STATION IDENT						
	SOURCE DATA (except for a	Geographic Names Re					
4 🗀	DATA TO FEDERAL RECO	PRDS CENTER. DAT	E FORWARDED:	_ c/3	187		-
IV. SURV	EY EDITIONS (This section			p edition is reg			
SECOND	SURVEY NUMBER	(2) PH -	R		TY REVIS	PE OF SURVEY	HRVEY
EDITION		=	ELD EDIT	{ □	_	MAP CLASS	FINAL
 -	SURVEY NUMBER	JOB NUMBE	R			PE OF SURVEY	LIFINAL
THIRD	TP	(3) PH			REVIS	ED RES	URVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FI	ELD EDIT	n.	□	MAP CLASS □IV. □V.	FINAL
	SURVEY NUMBER	JOB NUMBE	R			PE OF SURVEY	
FOURTH	TP -	(4) PH			REVIS		3RVĖY
EDITION	DATE OF PHOTOGRAP	PHY DATE OF FI	ELD EDIT	<u>□</u> 11.	П ш.	MAP CLASS	DEINAL



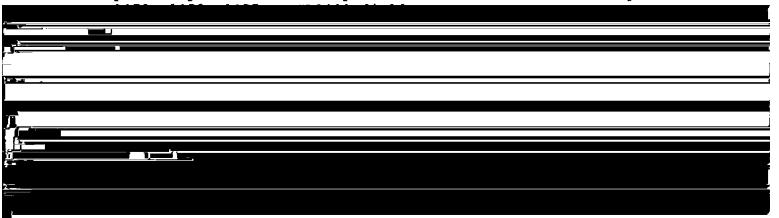
SUMMARY

Project PH-7017, Afognak and Kodiak Islands, Alaska, consists of 33 maps. Seven, TP-00284 through TP-00290, are at 1:10,000 scale and 26, TP-00291 through TP-00316, are at 1:20,000 scale. The project area is the northwestern coast line of Kodiak and Afognak Islands and their interface with Shelikof Strait. The project extends from Big Bay in the northeast to Cape Ugat in the southwest. The photogrammetric survey depicts the shoreline and other cartographic features of mapping interest in the coastal areas and navigable waterways bisecting the islands.

The purpose of the project was to provide shoreline data for maintenance of the Nautical Charting Program and in support of hydrographic survey operations planned for the area.

Field operations consisted of recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. No field inspection was conducted for this project. Panchromatic photographs required for aerotriangulation of the entire project area and subsequent compilation of the 1:20,000-scale maps were obtained with the RC-9 "M" camera at 1:60,000 scale. Supplemental color photographs at 1:20,000 scale were acquired for those areas to be mapped at 1:20,000 scale using the RC-8 "E" camera. Areas to be mapped at 1:10,000 scale were covered by 1:30,000-scale color compilation photographs also obtained with the RC-8 "E" camera. The 1:30,000-scale compilation photographs were controlled by aerotriangulated points derived from the 1:60,000-scale panchromatic photographs. All calculations pertaining to the vertical relationship of the photographs to the datums, mean lower low water and mean high water, were derived from predicted tidal information.

A field edit was performed by personnel of the Pacific Marine Center's hydrographic survey vessels, while conducting hydrographic survey operations in selected areas. These field edits, occurring over four field seasons, were limited to the boundaries of the hydrographic surveys, thereby creating numerous partially field edited maps. Field edits occurred during the



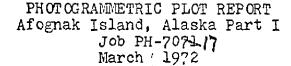
The aerotriangulation of the project was divided into two phases (Part I and II), in order to expedite the delivery of photogrammetric map data in support of hydrographic survey operations. Eighteen strips of photographs were bridged using analytic aerotriangulation methods. Horizontal control used was field identified (premarked). Vertical control was taken from U.S. Geological Survey quadrangles. Aerotriangulated control proved adequate and meets the requirements of the National Standards of Map Accuracy.

Compilation was performed in the Coastal Mapping Section, Atlantic Marine Center, Norfolk, Virginia. Delineation was accomplished using a Wild B-8 stereoplotter through application of standard shoreline mapping techniques. This was supplemented by graphic compilation techniques in selected areas. Delineation was based on an office interpretation of the 1:60,000 scale panchromatic, and 1:20,000- and 1:30,000-scale natural color, photographs. All line work on the base maps was smooth drafted. In areas where the stage of tide for individual photographs, based on predictions, was determined to be within the required 1 foot of the vertical datum mean lower low water, the approximate datum was delineated on the map using graphic



FIELD INSPECTION
PH-7017
TP-00287

There was no field inspection prior to compilation. The field work accomplished was limited to the recovery and identification of horizontal control necessary for the aerotriangulation of the project.



21. Area Covered

This report pertains to 13 sheets on Afognak Island. The sheets are TP-00284 thru TP-00290 at 1:10,000 scale and TP-00291 thru TP-00296 at 1:20,000 scale. The area covered is the northwest shoreline of Afognak Island.

22. Method

Eight strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Alaska state plane coordinate system, zone 5. Strips 1 and 2 of 1:60,000 scale photography were adjusted as a block and used to control the six strips of 1:30,000 scale photography.

23. Adequacy of Control

The horizontal control is sparse in both strips of 1:60,000 scale photography. However the project should still meet the map accuracy standards.

24. Supplemental Data

Vertical control was taken from USGS topographic quadrangles.

25. Photography

The photography was adequate.

Respectfully submitted:

Don O. Ruman

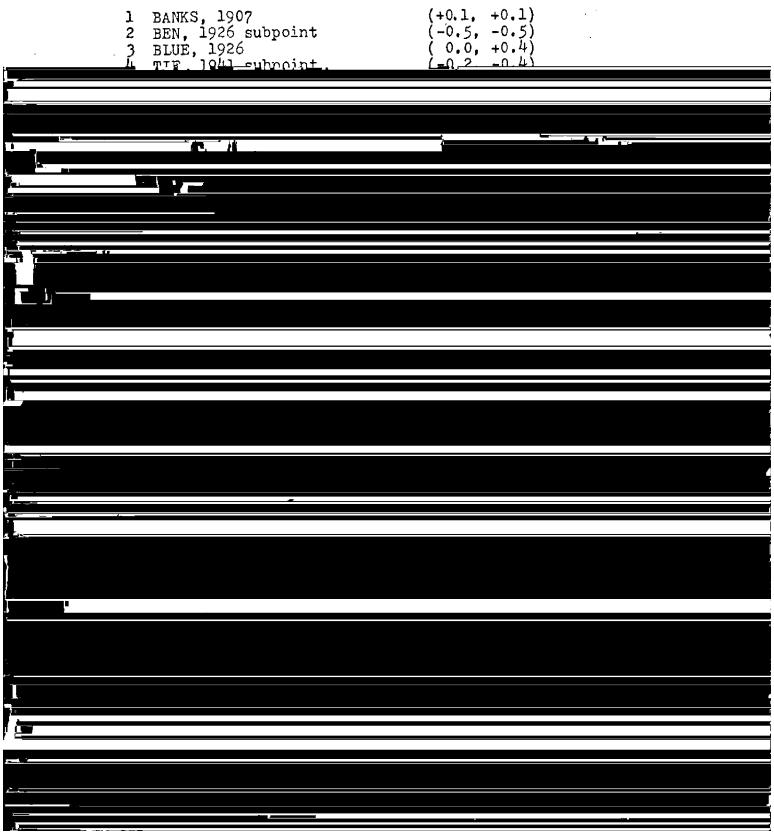
Don O. Norman Cartographer

Approved and forwarded:

Afognak Island, Alaska

Fit to Control (x, y) feet

Strips 1 & 2 (block adjustment)



Strip 7 90801 (0.0, 0.0) 91801 (+2.3, -0.9) 92801 (0.0, 0.0) 92802 (-1.1, -0.7)

Strip 8

82801	(-2.2, +0.6)
82802	(0.0, 0.0)
84801	(0.0, 0.0)
85801	(-10.7, +4.6)
85802	(0.0, 0.0)

AEROTRIANGULATION SKETCH AFOGNAK ISLAND, ALASKA

71 M3139

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U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 1972 REMARKS 16, GEOGRAPHIC POSITION DATE DATE DATE ORIGINATING ACTIVITY 53,550" 43' 24.221" 07.435" 26' 57,541" 41' 04,789" 27' 43,323" λ LONGITUDE \$\phi\$ LATITUDE 28 41 -SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. 152 152 8 152 58 DESCRIPTIVE REPORT CONTROL RECORD ~ ~ 0 0 Ф. ベ ф. -0- \prec ╼ Φ \prec • ~ Ф. DATE ADY. 14, 1971 B. Wilson BATE HAND PLOTTING CHECKED BY COMPUTATION CHECKED BY COORDINATES IN FEET N. A. 1927 STATE Alaska ZONE ۲ # **=** 7 ۳, 빚 £ ä 7 7 3= ξ, Ħ ₽, ij ä **"** ĭ ۲, AEROTRI-ANGULATION POINT NUMBER ì ŧ ŀ DATE PH-7017 SOURCE OF INFORMATION (Index) G.P. Vol. G.P. VOL. Page 516 G.P. Vol. Page 515 Page 511 A.C. Rauck, Jr. STATION NAME TP-00287 BLUE, 1926 HOGG, 1932 FOX, 1926 COMPUTED BY LISTED BY MAP NO

COMPILATION REPORT

TP-00287

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter. Photography was adequate.

32. CONTROL:

See Photogrammetric Plot Report, dated March 1972.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated from office interpretation of the photographs. Stage of tide is about +9 ft., therefore rocks, ledge and shoals below this level could not be shown, nor was there a mean lower low water line shown.

36. OFFSHORE DETAILS:

See item 35.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36b, item #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS quadrangle: AFOGNAK (B-3) ALASKA, scale 1:63,360, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart: 8573, scale 1:20,000, 3rd edition, June 16, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

151

Charles E. Blood Cartographic Technician May 16, 1972

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00287

FIELD EDIT:

Field edit was good. The field editor did not provide limiting lines for the classification of the foreshore areas. No field edit report was submitted.

Review Report TP-00287

61. General Statement

Refer to the summary bound with this Descriptive Report for an overview of the photogrammetric operations related to the production of this map and associated data.

62. Comparison with Registered Topographic Surveys

Comparison with registered topographic surveys was not a requirement for this project.

63. Comparison with Maps of Other Agencies

Refer to item 46 of the Compilation Report bound with this Descriptive Report for detailed information on this topic.

64. Comparison with Hydrographic Surveys

Comparison with hydrographic surveys was not a requirement for this project.

65. Comparison with Nautical Charts

Refer to item 47 of the Compilation Report bound with this Descriptive Report for information on this topic.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

67. Delineation

Delineation was accomplished using a Wild B-8 stereoplotter through application of standard mapping techniques. This was supplemented by an office interpretation and graphic application of the ratioed, 1:30,000-scale natural color photographs.

Submitted by,

D. Butler Office Reviewer

F∕inal Reviewer

Approved by,

Acting Chief, Photogrammetric Production Section

Chief. Photogrammetry Branch

December 13, 1971

GEOGRAPHIC NAMES FINAL NAME SHEET PH-7017 (Alaska)

TP-00287

Afognak Island

Bear Island

Bluefox Bay

Chugach National Forest

Devilpaw Mountain gwm

Esther Lagoon

Hogg Island

Pinnacle Rock

Shelikof Strait

Teck Island

Approved by:

Chief Geographer

Prepared by:

Cartographic Technician Frank W. Pickett

INDEX TO PROJECT DATA AND MATERIAL ON FILE

PH-7017

AFOGNAK AND KODIAK ISLANDS, ALASKA

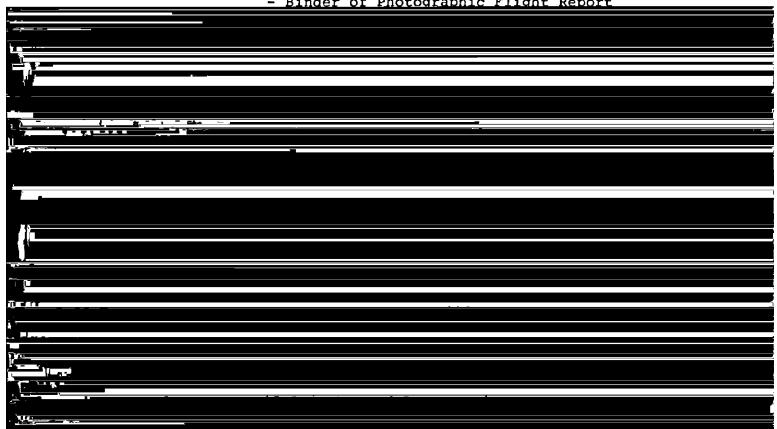
NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

BROWN JACKETS:* Denotes Field Edit Information 1 of 3: - Project Map Diagram/Photogrammetric Flight Line Layout - 1 Paper & 2 Film Ozalids, TP-00286 - 1 Paper & 2 Film Ozalids, TP-00287 - 1 Paper & 2 Film Ozalids, TP-00288 - 1 Paper & 1 Film Ozalid, TP-00289 - 1 Paper & 1 Film Ozalid, TP-00290 - 1 Paper Ozalid, TP-00291 - 1 Paper Ozalid, TP-00292 - 1 Film Ozalid, TP-00293 - 1 Paper & 1 Film Ozalid, TP-00294 - 1 Paper & 1 Film Ozalid, TP-00295 * - 1 Paper Ozalid, TP-00296 * - 1 Film Ozalid, TP-00297 - 1 Paper & 1 Film Ozalid, TP-00301 - 1 Film Ozalid, TP-00303 - 1 Film Ozalid, TP-00310 * - 1 Film Ozalid, TP-00311

> 2 of 3: - Binder of Aerotriangulation Printouts - Binder Descriptive Report Control Records

> > C&GS Form 164

- Binder of Photographic Flight Report



PHOTOGRAPHS 9X9 FORMAT

- * NOS 3 Aug. 71 E (C) 7352 thru 7355
- * NOS 3 Aug. 71 E (C) 7269, 7270, 7272, 7294, 7295
- * NOS 10 Jul. 71 E (C) 6708 thru 6710, 6726 thru 6730, 6734, 6736, 6738, 6739, 6741 thru 6743
- * NOS 10 Jul. 71 E (C) 6642, 6645, 6646, 6648, 6649, 6668
- NOS 6 Jul. 71 E (C) 6362 thru 6370
- * NOS 5 Jul. 71 E (C) 6217 thru 6226
- NOS 4 Jul. 71 E (C) 6113
- * NOS 5 Jul. 71 E (C) 6141, 6151, 6152
- * NOS 4 Jul. 71 E (C) 6044 thru 6047, 6049, 6050, 6076 thru 6078, 6081, 6091 thru 6094
- * NOS 4 Jul. 71 E (C) 5995, 5996

PHOTOGRAPH SEGMENTS

- * NOS 4 Jul. 71 M (P) 220
- * NOS 4 Jul. 71 M (P) 221
- * NOS 4 Jul. 71 M (P) 222
- * NOS 4 Jul. 71 M (P) 225, Parts A,B,C * NOS 3 AUG. 71 M (P) 319
- * NOS 3 Aug. 71 M (P) 320
- NOS 3 Aug. 71 M (P) 322
- * NOS 3 Aug. 71 M (P) 323
- * NOS 3 Aug. 71 M (P) 324, Parts A,B
- * NOS 3 Aug. 71 M (P) 325
- * NOS 3 Aug. 71 M (P) 326, Parts A,B
- * NOS 5 Jul. 71 E (C) 6246
- * NOS 5 Jul. 71 E (C) 6247
- * NOS 6 Jul. 71 E (C) 6282
- * NOS 6 Jul. 71 E (C) 6281
- * NOS 6 Jul. 71 E (C) 6283
- * NOS 6 Jul. 71 E (C) 6284
- * NOS 6 Jul. 71 E (C) 6290
- * NOS 6 Jul. 71 E (C) 6291
- * NOS 6 Jul. 71 E (C) 6318 * NOS 6 Jul. 71 E (C) 6321
- * NOS 6 Jul. 71 E (C) 6323
- * NOS 6 Jul. 71 E (C) 6333
- * NOS 6 Jul. 71 E (C) 6334 * NOS 6 Jul. 71 E (C) 6335

PROJECT COMPLETION REPORT

AGENCY ARCHIVES

Registration Copy of the Map Descriptive Report of the Map

PHOTOGRAMMETRIC ELECTRONIC DATA LIBRARY

There is no digital data for this project

REPRODUCTION BRANCH

8X Reduction Negative of Map

OFFICE OF THE STAFF GEOGRAPHER

Geographic Names Standard

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00287.

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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